

A B S T R A C TPROCESS FOR PREPARING ORGANIC HYDROPEROXIDE  
CONTAINING PRODUCT

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Process for preparing alkylaryl hydroperoxide containing product, which process comprises:

- 10 (a) oxidation of an alkylaryl compound to obtain reaction product containing alkylaryl hydroperoxide,
- (b) contacting with water at least part of the alkylaryl hydroperoxide containing reaction product obtained in step (a) which reaction product contains less than 0.05 %wt of sodium,
- 15 (c) separating the product of step (b) into a hydrocarbonaceous phase containing alkylaryl hydroperoxide and an aqueous phase,
- (d) optionally repeating process steps (b) and (c) one or more times,
- 20 (e) contacting at least part of the hydrocarbonaceous phase containing alkylaryl hydroperoxide obtained in step (c) or (d) with olefin and catalyst to obtain alkylaryl hydroxide and oxirane compound, and
- 25 (f) separating at least part of the oxirane compound from the alkylaryl hydroxide.